```
=> d his full

     (FILE 'HOME' ENTERED AT 14:52:41 ON 05 JAN 2006)

     FILE 'LREGISTRY' ENTERED AT 14:55:05 ON 05 JAN 2006
L1             STRUCTURE

     FILE 'REGISTRY' ENTERED AT 15:06:05 ON 05 JAN 2006
L2             0 SEA SSS SAM L1
                 D QUE STAT
L3             0 SEA SSS FUL L1
L4               STRUCTURE
L5             0 SEA SSS SAM L4
L6               STRUCTURE
L7             4 SEA SSS SAM L6
L8               STRUCTURE
L9             1 SEA SSS SAM L8
                 D SCAN
L10           70 SEA SSS FUL L8
L11           15 SEA ABB=ON  PLU=ON  L10 AND NR<2
L12            0 SEA ABB=ON  PLU=ON  L10 AND NR=0
L13            1 SEA ABB=ON  PLU=ON  L10 NOT RSD/FA
                 D SCAN
L14           16 SEA ABB=ON  PLU=ON  L11 OR L13

     FILE 'HCAPLUS' ENTERED AT 15:17:17 ON 05 JAN 2006
L15            7 SEA ABB=ON  PLU=ON  L14

     FILE 'CAOLD' ENTERED AT 15:17:27 ON 05 JAN 2006
L16            0 SEA ABB=ON  PLU=ON  L14
L17            0 SEA ABB=ON  PLU=ON  L14

     FILE 'BEILSTEIN' ENTERED AT 15:18:02 ON 05 JAN 2006
                 D L4 QUE STAT
                 D L1 QUE STAT
L18            0 SEA SSS SAM L1
L*** DEL       0 S L11 FULL
L19            0 SEA SSS FUL L1

     FILE 'MARPAT' ENTERED AT 15:20:10 ON 05 JAN 2006
L20              STRUCTURE

     FILE 'MARPAT' ENTERED AT 15:23:36 ON 05 JAN 2006
L21            0 SEA SSS SAM L20
L22            3 SEA SSS FUL L20
                 D SCAN
L23            2 SEA ABB=ON  PLU=ON  L22/COM


     FILE HOME

     FILE LREGISTRY
     LREGISTRY IS A STATIC LEARNING FILE

     NEW CAS INFORMATION USE POLICIES, ENTER HELP USAGETERMS FOR DETAILS.

     FILE REGISTRY
     Property values tagged with IC are from the ZIC/VINITI data file
     provided by InfoChem.
```

STRUCTURE FILE UPDATES: 4 JAN 2006 HIGHEST RN 871209-00-6
DICTIONARY FILE UPDATES: 4 JAN 2006 HIGHEST RN 871209-00-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

****
* *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
* *
****

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

FILE HCAPLUS

FILE COVERS 1907 - 5 Jan 2006 VOL 144 ISS 2
FILE LAST UPDATED: 4 Jan 2006 (20060104/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE CAOLD
FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE

display formats.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file supports REG1stRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

FILE BEILSTEIN
FILE LAST UPDATED ON OCTOBER 10, 2005

FILE COVERS 1771 TO 2005.
FILE CONTAINS 9,363,954 SUBSTANCES

>>>PLEASE NOTE: Reaction Data and substance data are stored in separate documents and can not be searched together in one query. Reaction data for BEILSTEIN compounds may be displayed immediately with the display codes PRE (preparations) and REA (reactions). A substance answer set retrieved after the search for a chemical name, a compounds with available reaction information by combining with PRE/FA, REA/FA or more generally with RX/FA. The BEILSTEIN Registry Number (BRN) is the link between a BEILSTEIN compound and belonging reactions. For mo detailed reaction searches BRNs can be searched as reaction partner BRNs Reactant BRN (RX.RBRN) or Product BRN (RX.PBRN).<<<

>>> FOR SEARCHING PREPARATIONS SEE HELP PRE <<<

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**************************************************************
* PLEASE NOTE THAT THERE ARE NO FORMATS FREE OF COST.        *
* SET NOTICE FEATURE: THE COST ESTIMATES CALCULATED FOR SET NOTICE *
* ARE BASED ON THE HIGHEST PRICE CATEGORY. THEREFORE; THESE  *
* ESTIMATES MAY NOT REFLECT THE ACTUAL COSTS.                *
* FOR PRICE INFORMATION SEE HELP COST                        *
**************************************************************
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NEW
* PATENT NUMBERS (PN) AND BABS ACCESSION NUMBERS (BABSAN) CAN NOW BE SEARCHED, SELECTED AND TRANSFERRED.
* NEW DISPLAY FORMATS ALLREF, ALLP AND BABSAN SHOW ALL REFERENCES, ALL PATENT REFERENCES, OR ALL BABS ACCESSION NUMBERS FOR A COMPOUND AT A GLANCE.

FILE MARPAT
FILE CONTENT: 1988-PRESENT (VOL 144 ISS 1 (20060101/ED)

MOST RECENT CITATIONS FOR PATENTS FROM FIVE MAJOR ISSUING AGENCIES (COVERAGE TO THESE DATES IS NOT COMPLETE):

US 6949561 27 SEP 2005
DE 1020040544 15 SEP 2005
EP 1582199 05 OCT 2005
JP 2005320486 17 OCT 2005
WO 2005110983 24 NOV 2005

Expanded G-group definition display now available.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

=> file hcaplus

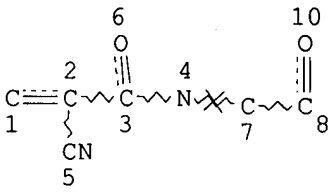
FILE 'HCAPLUS' ENTERED AT 15:28:42 ON 05 JAN 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 5 Jan 2006 VOL 144 ISS 2
FILE LAST UPDATED: 4 Jan 2006 (20060104/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d que stat l15
L8 STR



NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE
L10 70 SEA FILE=REGISTRY SSS FUL L8
L11 15 SEA FILE=REGISTRY ABB=ON PLU=ON L10 AND NR<2
L13 1 SEA FILE=REGISTRY ABB=ON PLU=ON L10 NOT RSD/FA
L14 16 SEA FILE=REGISTRY ABB=ON PLU=ON L11 OR L13
L15 7 SEA FILE=HCAPLUS ABB=ON PLU=ON L14

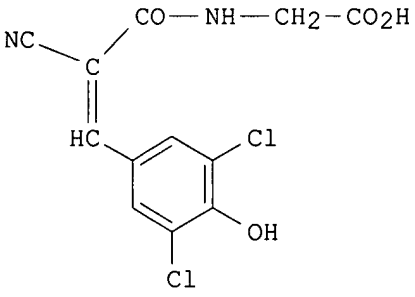
=> d l15 ibib abs hitstr 1-7

L15 ANSWER 1 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:781935 HCAPLUS
DOCUMENT NUMBER: 141:282410
TITLE: Hair dye compositions containing direct dyes having dissociating groups
INVENTOR(S): Kawagishi, Toshio; Dominic, Pratt

PATENT ASSIGNEE(S): Kao Corp., Japan; Fuji Photo Film Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 38 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004262888	A2	20040924	JP 2003-56768	20030304
PRIORITY APPLN. INFO.:			JP 2003-56768	20030304

OTHER SOURCE(S): MARPAT 141:282410
GI

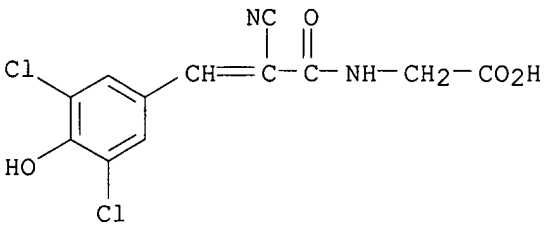


I

AB The hair dye compns. contain direct dyes DYE-(L)n-DIS (DYE = residue of dye having dissociating H atom in chromophore and maximum absorption at 400-700 nm in dissociated state; L = divalent linking group; n = 0, 1, 2; DIS = dissociating group). Goat hair was dyed well with a hair dye foam composition (pH 8.5) containing a direct dye I 0.5, monoethanolamine 1, EtOH 15, propylene glycol 10, polyoxyethylene octyldodecyl ether 10, polyoxyethylene tridecyl ether 9, oleic acid diethanolamide 8, oleyl alc. 2, NH4Cl, LPG 10, and H2O to 100 weight% showed good color fastness to shampooing.

IT 760191-15-9
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair dye compns. containing direct dyes having dissociating groups)

RN 760191-15-9 HCAPLUS
CN Glycine, N-[2-cyano-3-(3,5-dichloro-4-hydroxyphenyl)-1-oxo-2-propenyl]- (9CI) (CA INDEX NAME)



L15 ANSWER 2 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:837417 HCAPLUS
DOCUMENT NUMBER: 139:335081
TITLE: Method for characterizing peptides and proteins by MALDI using analyte labeling with light-absorbing tags
INVENTOR(S): Thompson, Andrew Hugin; Hamon, Christian; Kuhn, Karsten; Meyer, Markus; Juergen, Schafer; Neumann, Thomas
PATENT ASSIGNEE(S): Xzillion Gmbh & Co. Kg, Germany
SOURCE: PCT Int. Appl., 106 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003087839	A1	20031023	WO 2003-GB1485	20030404
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2480836	AA	20031023	CA 2003-2480836	20030404
EP 1490693	A1	20041229	EP 2003-720676	20030404
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2005521892	T2	20050721	JP 2003-584731	20030404
PRIORITY APPLN. INFO.:			EP 2002-252440 A	20020404
			WO 2003-GB1485 W	20030404

OTHER SOURCE(S): MARPAT 139:335081

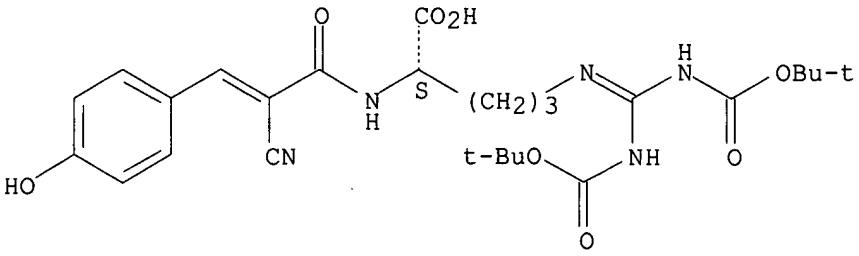
AB Provided is a method for characterizing an analyte, especially peptides and proteins by matrix assisted laser desorption ionization (MALDI) mass spectrometry, which method comprises: (a) labeling the analyte with a light-absorbing label that absorbs light at a pre-determined frequency, to form a labeled analyte; (b) embedding the labeled analyte in a matrix formed from at least one compound that absorbs light, to form an embedded labeled analyte; (c) desorbing the embedded labeled analyte by exposing it to light having the pre-determined frequency, to form a desorbed analyte; and (d) detecting the desorbed analyte by mass spectrometry to characterize the analyte. The synthesis of light absorbing labels and their reaction with resin-bound peptides is presented. The invention also concerns a MALDI test kit that includes arrays of labels and a matrix.

IT 614757-37-8P 614757-38-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(method for characterizing peptides and proteins by MALDI using analyte labeling with light-absorbing tags)

RN 614757-37-8 HCAPLUS
CN L-Ornithine, N5-[bis[[(1,1-dimethylethoxy)carbonyl]amino]methylene]-N2-[2-cyano-3-(4-hydroxyphenyl)-1-oxo-2-propenyl]- (9CI) (CA INDEX NAME)

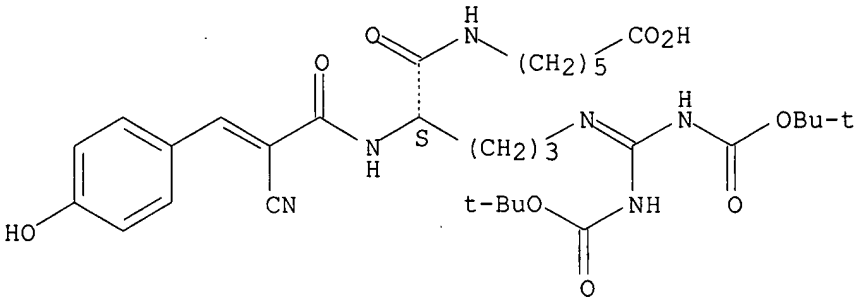
Absolute stereochemistry.

Double bond geometry unknown.



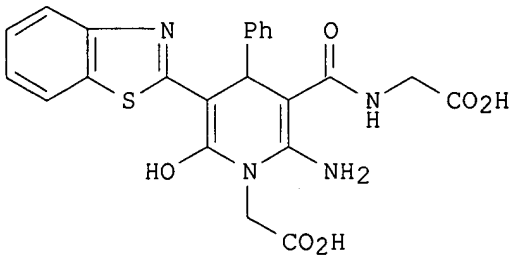
RN 614757-38-9 HCAPLUS
CN 3-Oxa-5,7,13-triazanonadec-5-en-19-oic acid, 11-[[2-cyano-3-(4-hydroxyphenyl)-1-oxo-2-propenyl]amino]-6-[[(1,1-dimethylethoxy)carbonyl]amino]-2,2-dimethyl-4,12-dioxo-, (11S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 3 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:135779 HCAPLUS
DOCUMENT NUMBER: 132:322108
TITLE: Amino acid derivatives in organic synthesis, part 4: Facile synthesis of heterocycles containing a glycine residue
AUTHOR(S): Chabaka, Laila M.; Allam, Yehia A.; Nawwar, Galal A. M.
CORPORATE SOURCE: Pesticides Laboratory, National Research Center, Cairo, Egypt
SOURCE: Zeitschrift fuer Naturforschung, B: Chemical Sciences (2000), 55(1), 104-108
CODEN: ZNBSEN; ISSN: 0932-0776
PUBLISHER: Verlag der Zeitschrift fuer Naturforschung
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 132:322108
GI



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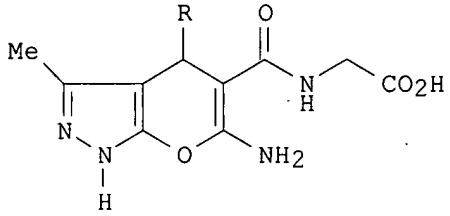


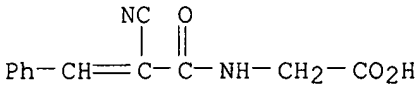
II

AB Pyridines, thiazolopyridines and pyrazolopyrans containing glycinate residue, e.g. I and II (R = Ph, 4-chlorophenyl), were prepared by reacting N-cyanoacryloylglycinate ylidenes with active methylene compds. via a Michael addition - intracyclization synthetic pathway. Simple routes for the synthesis of heterocycles with an amino acid residue have been previously reported as the incorporation of these residues improves the pharmacokinetics and toxicity of active compds. However, trials to deesterify these residues for coupling purposes were unsuccessful. So, we tried herein new approaches for synthesizing heterocycles carrying one or two glycine moieties with free carboxylic acid group to facilitate further peptide linkage on one hand and on the other one could be able to form metal chelates, a property having a significant output on the toxicol. behavior.

IT 267240-00-6P 267240-11-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of heterocycles containing a glycine residue)

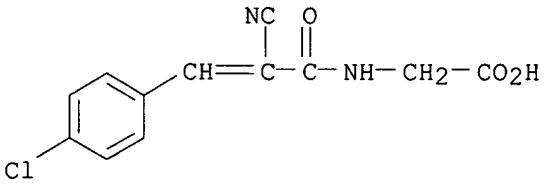
RN 267240-00-6 HCAPLUS

CN Glycine, N-(2-cyano-1-oxo-3-phenyl-2-propenyl)- (9CI) (CA INDEX NAME)



RN 267240-11-9 HCAPLUS

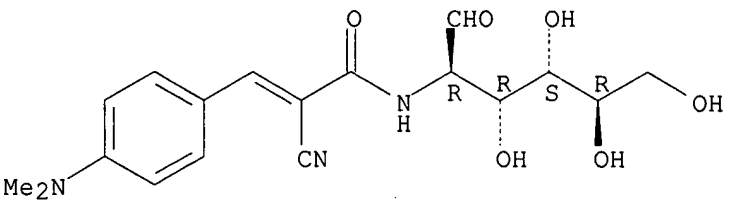
CN Glycine, N-[3-(4-chlorophenyl)-2-cyano-1-oxo-2-propenyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 4 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1998:519780 HCAPLUS
DOCUMENT NUMBER: 129:257184
TITLE: Fluorescent molecular rotors with specific hydrophilic functions: glucosamine and inositol derivatives
AUTHOR(S): Carre, M. C.; Geoffroy-Chapotot, C.; Adibnejad, M.; Berroy, P.; Stoltz, J. F.; Viriot, M. L.
CORPORATE SOURCE: DCPR-GRAPP-UMR 7630 CNRS, ENSIC-INPL, Nancy, F-54001, Fr.
SOURCE: Journal of Fluorescence (1998), 8(1), 53-57
CODEN: JOFLEN; ISSN: 1053-0509
PUBLISHER: Plenum Publishing Corp.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB New fluorescent mol. rotors having hydrophilic functional groups (such as a sugar or an inositol group) were synthesized. The aim was to obtain impermeant and uncharged probes, with a defined orientation within a model membrane bilayer or in a cell membrane. Their fluorescence properties, which are dependent on solvent polarity and viscosity, were successfully applied to characterize organized media: for example, the CMC of surfactants and the transition temperature of DPPC liposomes were evaluated.
IT 213603-31-7P 213603-32-8P
RL: ARU (Analytical role, unclassified); PRP (Properties); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation)
(glucosamine and inositol derivs. as fluorescent mol. rotors with specific hydrophilic functions)
RN 213603-31-7 HCAPLUS
CN D-Glucose, 2-[[2-cyano-3-[4-(dimethylamino)phenyl]-1-oxo-2-propenyl]amino]-2-deoxy- (9CI) (CA INDEX NAME)

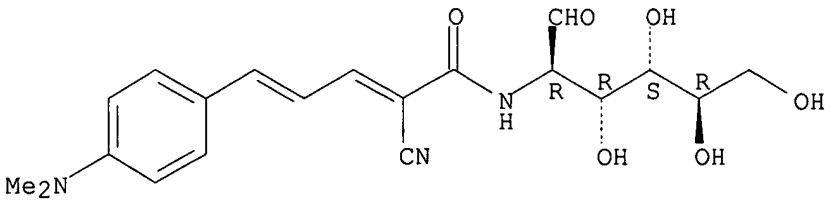
Absolute stereochemistry.
Double bond geometry unknown.



RN 213603-32-8 HCAPLUS
CN D-Glucose, 2-[[2-cyano-5-[4-(dimethylamino)phenyl]-1-oxo-2,4-pentadienyl]amino]-2-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

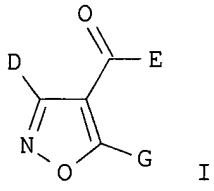


REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 5 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1995:784800 HCAPLUS
DOCUMENT NUMBER: 123:285992
TITLE: Preparation of isoxazole-4-carboxylates, 2-cyano-3-hydroxyacrylates, and analogs as immunosuppressants
INVENTOR(S): Coghlan, Michael J.; Luly, Jay R.; Wiedeman, Paul E.
PATENT ASSIGNEE(S): Abbott Laboratories, USA
SOURCE: PCT Int. Appl., 99 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9424095	A1	19941027	WO 1994-US4045	19940414
W: CA, JP, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
PRIORITY APPLN. INFO.:			US 1993-48499 A	19930416
			US 1993-56500 A	19930503

OTHER SOURCE(S): MARPAT 123:285992
GI



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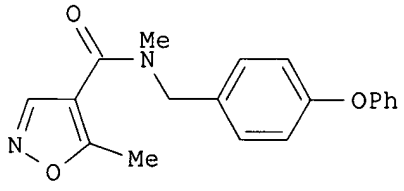


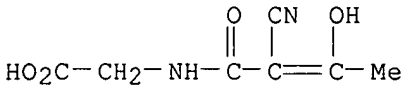
II

AB HOCG:C(CN)COE, GCOC(CN)COE, and isoxazoles I (D = H, alkyl, CHO, CO2H, alkoxycarbonyl, etc.; E = H, NH2, OH, Me, etc.; G = H, alkyl, Ph, etc.) were prepared Thus, prepared isoxazolecarboxamide II gave 94 and 99% inhibition of human mixed lymphocyte reaction and allogenic mixed leukocyte response, resp., at 10μM.

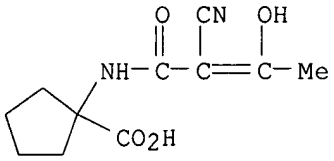
IT 167427-53-4P 167428-33-3P 167428-34-4P 167428-51-5P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);

BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of isoxazole-4-carboxylates, 2-cyano-3-hydroxyacrylates, and analogs as immunosuppressants)

RN 167427-53-4 HCAPLUS
CN Glycine, N-(2-cyano-3-hydroxy-1-oxo-2-butenyl)- (9CI) (CA INDEX NAME)

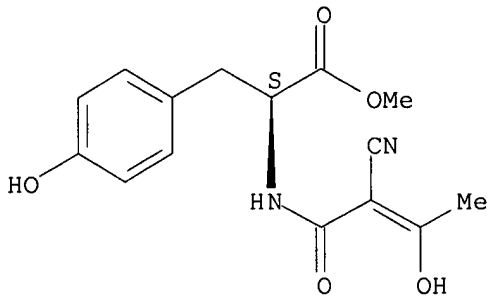


RN 167428-33-3 HCAPLUS
CN Cyclopentanecarboxylic acid, 1-[(2-cyano-3-hydroxy-1-oxo-2-butenyl)amino]- (9CI) (CA INDEX NAME)

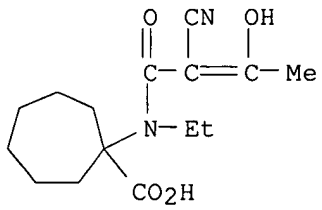


RN 167428-34-4 HCAPLUS
CN L-Tyrosine, N-(2-cyano-3-hydroxy-1-oxo-2-butenyl)-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



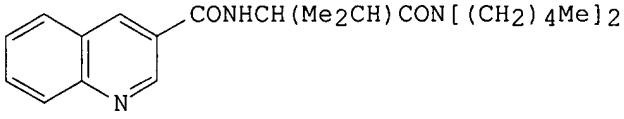
RN 167428-51-5 HCAPLUS
CN Cycloheptanecarboxylic acid, 1-[(2-cyano-3-hydroxy-1-oxo-2-butenyl)ethylamino]- (9CI) (CA INDEX NAME)



L15 ANSWER 6 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1991:608600 HCAPLUS
DOCUMENT NUMBER: 115:208600
TITLE: Preparation of amino acid analogs as cholecystokinin antagonists
INVENTOR(S): Kerwin, James F., Jr.
PATENT ASSIGNEE(S): Abbott Laboratories, USA
SOURCE: PCT Int. Appl., 147 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9100725	A2	19910124	WO 1990-US3630	19900626
WO 9100725	A3	19910221		
W: CA, JP, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, IT, LU, NL, SE				
CA 2062755	AA	19910108	CA 1990-2062755	19900626
EP 480969	A1	19920422	EP 1990-910218	19900626
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE				
JP 04506660	T2	19921119	JP 1990-509643	19900626
PRIORITY APPLN. INFO.:			US 1989-376778 A2	19890707
			WO 1990-US3630 W	19900626

OTHER SOURCE(S): MARPAT 115:208600
GI

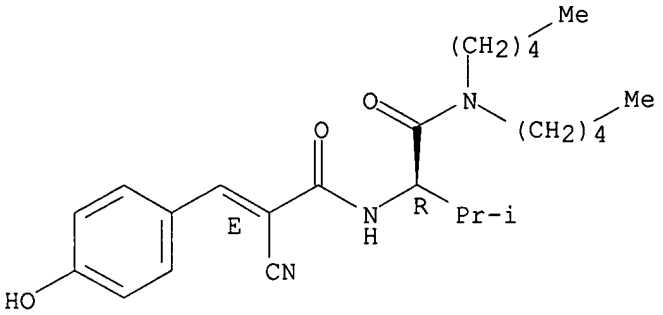


I

AB Amino acid analogs ArXZNRCR1R2COR3 [R = H, C1-8 alkyl, carboxyalkyl, alkoxycarbonylalkyl; R1 = H, C1-8 alkyl, (substituted) alkyl, cycloalkyl; R2 = H, C1-8 alkyl, (substituted) alkyl, cycloalkyl, aryl, (substituted) alkoxy, heterocyclyl; R1R2 = C4-6 alkylene, (CH2)qY(CH2)r; Y = O, S, CH2, NR4; R4 = H, C1-8 alkyl, haloalkyl, alkoxyalkyl, aralkyl, aryl, protecting group; q = 1-3; r = 1-3; RR2 = C3-5 alkylene, (CH2)qY(CH2)r, q, r, Y = defined above; R3 (substituted) amino; Z = CO, CS, SO2; X = bond, alkylene, (substituted) alkylene, X1X2; X2CH2; X1 = bond, CH2; X2 = O, S, NH, C1-8 alkyleneimino; Ar = aryl, heterocyclyl] were prepared For example, (R)-Valine-di-n-pentylamide hydrochloride (preparation given), EtN:C:N(CH2)3NMe2, HOBt, and quinoline-3-carboxylic acid were stirred under N at 0° in anhydrous CH2Cl2. N-Methylmorpholine was added and the mixture stirred overnight with warming to room temperature to give title compound (R)-I. (R)- I had an IC50 of 40 nM against [125I] Balton-Hunter CCK8 binding in pancreatic membranes from guinea pigs. IC50s for CCK8 binding in cortical membranes were also determined
IT 135496-18-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as cholecystokinin antagonist)
RN 135496-18-3 HCAPLUS
CN Butanamide, 2-[[2-cyano-3-(4-hydroxyphenyl)-1-oxo-2-propenyl]amino]-3-

methyl-N,N-dipentyl-, [R-(E)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



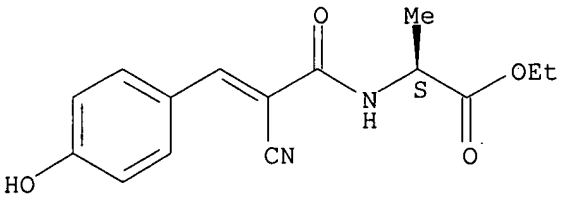
L15 ANSWER 7 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1991:112390 HCAPLUS
DOCUMENT NUMBER: 114:112390
TITLE: Amino acid derivatives and their preparation
INVENTOR(S): Nagai, Kimie; Naijoh, Schuichi; Kurotaki, Ayako; Shirane, Koro; Inoue, Chozo
PATENT ASSIGNEE(S): Showa Denko K. K., Japan
SOURCE: Ger. Offen., 16 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
DE 4010295	A1	19901004	DE 1990-4010295		19900330
JP 02262550	A2	19901025	JP 1989-82760		19890331
JP 06006562	B4	19940126			
JP 03109366	A2	19910509	JP 1989-245199		19890922
JP 06055701	B4	19940727			
US 5041602	A	19910820	US 1990-501220		19900329
US 5091557	A	19920225	US 1991-701906		19910517
PRIORITY APPLN. INFO.:			JP 1989-82760	A	19890331
			JP 1989-245199	A	19890922
			US 1990-501220	A3	19900329

OTHER SOURCE(S): MARPAT 114:112390
AB The title derivs., having chiral nematic or smectic phases, have the general formula ROACO2C6H4CH:C(Z)CONHCH(Y)COOX, where R = C6-16 linear alkyl; A = 1,4-phenylene or 4,4'-biphenylylene; X = C1-14 linear alkyl; Y = Me, CH2CH(Me)2, CH(Me)2, CH(Me)CH2Me, or CH2Ph; and Z = CN, Me, or H.
IT 132419-81-9P 132419-82-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, in formation of liquid crystal)
RN 132419-81-9 HCAPLUS
CN L-Alanine, N-[2-cyano-3-(4-hydroxyphenyl)-1-oxo-2-propenyl]-, ethyl ester (9CI) (CA INDEX NAME)

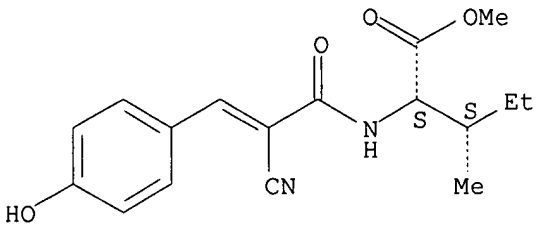
Absolute stereochemistry.

Double bond geometry unknown.



RN 132419-82-0 HCAPLUS
CN L-Isoleucine, N-[2-cyano-3-(4-hydroxyphenyl)-1-oxo-2-propenyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



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FILE CONTENT: 1988-PRESENT (VOL 144 ISS 1 (20060101/ED)

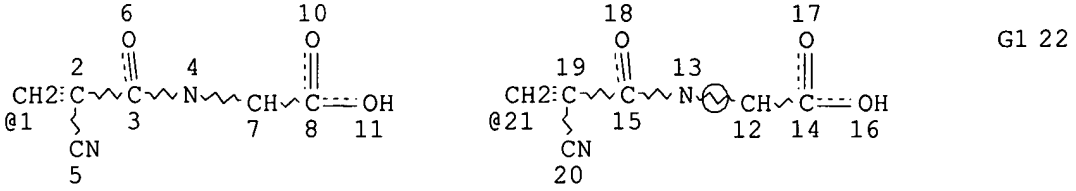
MOST RECENT CITATIONS FOR PATENTS FROM FIVE MAJOR ISSUING AGENCIES
(COVERAGE TO THESE DATES IS NOT COMPLETE):

US 6949561 27 SEP 2005
DE 1020040544 15 SEP 2005
EP 1582199 05 OCT 2005
JP 2005320486 17 OCT 2005
WO 2005110983 24 NOV 2005

Expanded G-group definition display now available.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

=> d l23 que stat
L20 STR



G1 22

VAR G1=1/21
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 21

STEREO ATTRIBUTES: NONE
L22 3 SEA FILE=MARPAT SSS FUL L20
L23 2 SEA FILE=MARPAT ABB=ON PLU=ON L22/COM

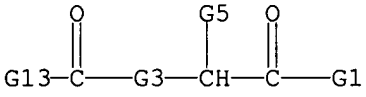
=> d l23 ibib abs qhit 1-2

L23 ANSWER 1 OF 2 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 114:81621 MARPAT
TITLE: Preparation of 5-norbornene-2,3-dicarboximido carboxylates as β-lactam antibiotic intermediates
INVENTOR(S): Scharfenberg, Peter; Henklein, Peter; Jaehrling, Renate; Teubner, Herbert; Steimke, Guenter
PATENT ASSIGNEE(S): Institut fuer Pharmakologische Forschung, Ger. Dem. Rep.
SOURCE: Ger. (East), 20 pp.
CODEN: GEXXA8
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

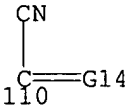
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 279875	A1	19900620	DD 1987-304621	19870703
PRIORITY APPLN. INFO.:			DD 1987-304621	19870703

GI For diagram(s), see printed CA Issue.
AB ACO2NB [A = residue of carboxylic acid ACO2H, e.g., I (1 of 47 general structures given); NB = 5-norbornene-2,3-dicarboximido; RA1 = H, Me, Et, (un)substituted alkyl, protective group; RD2 = H, alkyl, protective group; RD3 = H, (un)substituted Ph, heteroaryl, cyclohexenyl, etc.] were prepared by condensation of ACO2H with HONB or a reactive derivative of the latter.

MSTR 2C



G1 = OH
G3 = NH
G13 = 110



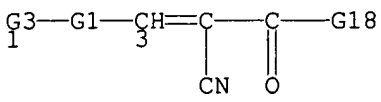
G14 = CH2 (opt. substd. by 1 or more G15)
Patent location: claim 1

L23 ANSWER 2 OF 2 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 112:216448 MARPAT
TITLE: (Aryl)alkylidenecyanoacetic acid salts with chiral amines as nonlinear optical materials having increased second harmonic generating ability and stability to laser light
INVENTOR(S): Taketani, Yutaka; Matsuzawa, Hiroshi; Iwata, Kaoru
PATENT ASSIGNEE(S): Teijin Ltd., Japan
SOURCE: Eur. Pat. Appl., 23 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 10
PATENT INFORMATION:

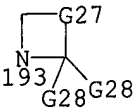
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 335641	A2	19891004	EP 1989-303013	19890328
EP 335641	A3	19910313		
EP 335641	B1	19940105		
R: DE, FR, GB				
JP 01245230	A2	19890929	JP 1988-72080	19880328
JP 01288831	A2	19891121	JP 1988-118327	19880517
JP 02138163	A2	19900528	JP 1988-288978	19881117
PRIORITY APPLN. INFO.:			JP 1988-72080	19880328
			JP 1988-118327	19880517
			JP 1988-288978	19881117

AB A(CR1:CH)nCH:C(CN)CO2H.B [I; R1 = H, Me; B = optically active amine; A = H, alkyl, (substituted) (hetero)aryl; n = 0-2], useful as nonlinear optical materials having increased second harmonic generating ability and stability to laser light, were prepared Thus, NCCH2CO2Me and p-dimethylaminocinnamaldehyde were stirred 40 h in aqueous NaOH at 85° followed by acidification to give 2-cyano-5-(4-dimethylaminophenyl)-2,4-pentadienoic acid. The latter in THF was treated with L-1-phenylethylamine to precipitate the 1:1 salt. The salt exhibited a second harmonic .apprx.3+ that of m-nitroaniline upon exposure to 1.06μ laser light.

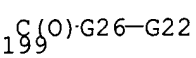
MSTR 1A



G18 = 193



G26 = O
G28 = 199



Patent location: claim 1